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G-MB - 288/64
8 April 1964

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MEMORANDUM FOR: Chief, Defensive Systems Division, OSI

ATTENTION :

THRU : Chief, RB/RG/CGS

FROM : Chief, CIA/PID (NPIC)

SUBJECT : Frame Spacing Observed on "G" Class Submarine Observed at Rosta Naval Shipyard, USSR; Photo Study

REFERENCE : Requirement No. C-S14-81,125 (Project No. C 458-64)

1. In response to Requirement No. C-S14-81,125 (C 458-64), a photographic analysis was performed on five CIA accessioned black and white photographs (CIA 958895-958899) in order to determine the frame spacing of a frost-covered Soviet "G" Class submarine observed at the Rosta Naval Shipyard.

2. Measurements of selected frame spacings derived from CIA photos 958895, 958896, and 958899 are forwarded as enclosures to this memorandum. Dimensions obtained on the frame spacing forward of the sail were derived utilizing: (a) draft markings of 1/5 meter; and (b) the diameter of the forward rescue buoy as 4.0 ft. Cross checks utilizing both of these methods yielded nearly identical results. The aft frame spacings were derived utilizing only the diameter of the after rescue buoy as 4.0 ft. The dimensions forwarded via the enclosures are considered accurate to within plus or minus five per cent since measurements were performed on unstable prints and no significant camera data was available.

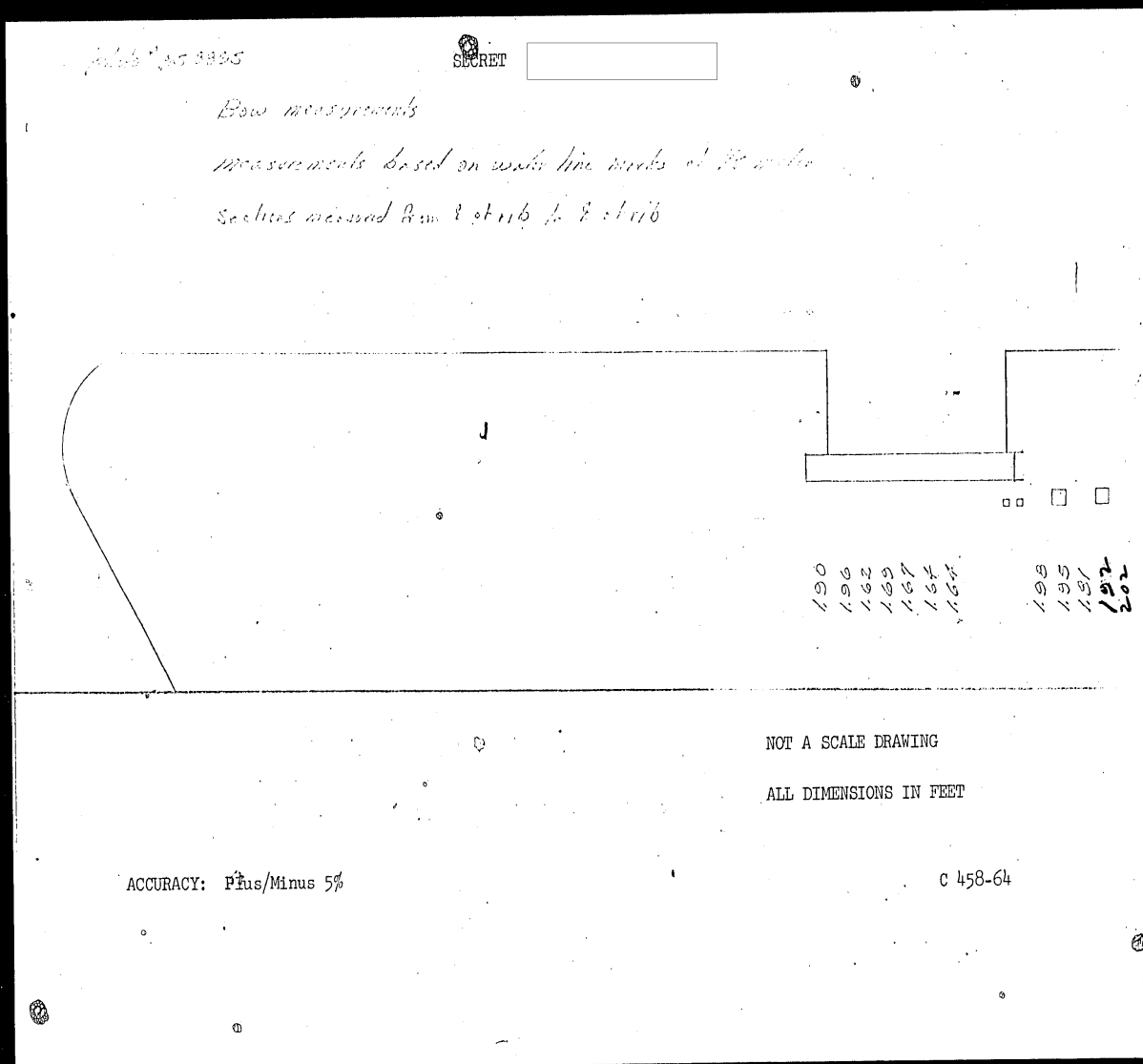
3. The mensural analysis on this study was performed by CIA/TID/TAB (NPIC). The photo analysis on this project was performed by CIA/PID/GMB (NPIC), who may be contacted on ext. 2548 for any additional information.

4. This memo with enclosures completes the referenced requirement.

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ENCLOSURES:
3 Diagrams

8-12272



SECRET

photo 254000 Low to midship

Reference made to water line marks of 13 meters and sheeted on reserve buoy.

Sections measured from 2 of rib to 2 of rib.

Cross check made on reserve buoy was 3.20' report calls for 4' from USN
PIC 646-61-51.97
1.90
1.83
1.65
1.68
1.62
1.651.96
1.95
1.88
1.88
1.85
1.80
1.77
1.53
1.51
1.72
1.82
1.83
2.031.60
1.87
1.80
1.95
1.94
1.92
1.85
1.84

NOT A SCALE DRAWING

ALL DIMENSIONS IN FEET

ACCURACY: Plus/Minus 5%

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SECRET

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Shin measurements

*based on measurement of 4' for dia of rescue buoy. then from USN file 64661-5
sighting occurred from Detroit to 2 of 116.*



*1.32
1.50
1.33
1.53*

NOT A SCALE DRAWING

ALL DIMENSIONS IN FEET

ACCURACY: Plus/Minus 5%

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